

PATENT  
0020-5147P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Yoshinori SHIMIZU et al. Conf.:

Appl. No.: NEW (Div. of Appl. No. Group:  
09/458,024)

Filed: July 1, 2003 Examiner:

For: LIGHT EMITTING DEVICE WITH BLUE LIGHT  
LED AND PHOSPHOR COMPONENTS

INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION WITH CONTINUATION-IN-PART OR  
RULE 1.53(b) CONTINUATION OR DIVISIONAL APPLICATION)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

July 1, 2003

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449 form(s), attached hereto.

II. REFERENCES PREVIOUSLY CITED OR SUBMITTED

Pursuant to 37 C.F.R. § 1.98(d), consideration of information listed on the PTO-1449 form(s) is requested since any patents, publications, or other information which are listed on the PTO-1449 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

<u>U.S. Appl. No(s).</u>	<u>U.S. Filing Date(s)</u>
09/458,024	December 10, 1999
09/300,315	April 28, 1999
08/902,725	July 29, 1997

III. FEES

This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

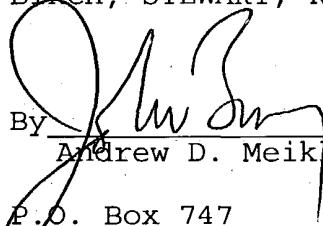
If the Examiner has any questions concerning this IDS or requires a copy of any of the references cited but not provided, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By

  
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*ADM*  
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0020-5147P

Attachment(s):  PTO-1449(s)

- References
- Foreign Search Report
- Other:

(Rev. 04/29/03)

Form PTO-1449

ATTY DOCKET NO.  
0020-5147PAPPLICATION NO.  
New-Rule 53 (b)  
Div. of  
09/458, 024**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

(Use several sheets if necessary)

APPLICANT  
Yoshinori SHIMIZU et al.FILING DATE  
July 1, 2003

GROUP

**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	KIND	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	US 3,652,956		1972-03-28	Pinnow et al.			
	US 4,314,910		1982-02-09	Barnes			
	US 5,006,908		1991-04-09	Matsuoka et al.			
	US 5,369,289		1994-11-29	Tamaki et al.			

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Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
JP	59-30107	U	1984-02-24	JAPAN				X
JP	7-32638	U	1995-06-16	JAPAN				X
JP	01-257993	A	1989-10-16	JAPAN				ABS
JP	01-260707	A	1989-10-18	JAPAN				ABS
JP	02-111922	A	1990-04-24	JAPAN				ABS
JP	05-142424	A	1993-06-11	JAPAN				X
JP	06-160635	A	1994-06-07	JAPAN				X
JP	06-027327	A	1994-02-04	JAPAN				X
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**OTHER DOCUMENTS** (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)

	"White LED lamp: Efficient light-emitting; Manufacture cost half", Nikkei Sangyo Shimbun, September 13, 1996, Published by Nihon Keizai Shimbunsha.
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	Kozo OSAMURA et al., "Preparation and optical properties of Ga <sub>1-x</sub> In <sub>x</sub> N thin films", Journal of Applied Physics, Vol. 46, No. 8, August 1975, pp. 3432-3437.

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		ATTY DOCKET NO. 0020-5147P	APPLICATION NO. New-Rule 53 (b) Div. of 09/458,024
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)		APPLICANT Yoshinori SHIMIZU et al.	
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**U.S. PATENT DOCUMENTS**

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							YES	NO
JP	07-114904	A	1995-05-02	JAPAN			X	
JP	07-235207	A	1995-09-05	JAPAN			X	
JP	53-7153		1978-01-21	JAPAN				X
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JP	55-4898	A	1980-01-14	JAPAN				X
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**OTHER DOCUMENTS** (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)

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Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
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JP	07-120754	A	1995-05-12	JAPAN			X	
JP	06-177423	A	1994-06-24	JAPAN			X	
JP	7-99345	A	1995-04-11	JAPAN			X	
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<b>OTHER DOCUMENTS</b> <small>(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)</small>								
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"SIMENS SMT-TOPLED fur die Oberflachenmontage" Frank Mollmer et al. Simens Components, 29 (1991) Hfet 4.

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JP	4717684		1972-09-09	JAPAN			X	
JP	491221		1974-01-12	JAPAN			X	
JP	49112577		1974-10-26	JAPAN			ABS	
JP	62189770		1986-02-15	JAPAN			ABS	
JP	291980		1988-09-29	JAPAN			ABS	

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"GaNpn Contact Blue/Ultraviolet light Emitting Diode", H. Amano et al., Applied Physics, Vol. 20, No. 2, pp. 163-166 (1991)
"Phosphors Based on Rare-Earths, A New Era in Fluorescent Lighting", B.M.J. Smets, Materials Chemistry and Physics, 16 pp. 283-299 (1987)
"A New Phosphor for Flying-Spot Cathode-Ray Tubes for Color Television: Yellow Emitting..", G. Blasse et al., App. Phys. Lett. Vol. 11, No. 2, pp. 53-55 (1967)
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Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
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JP	5183189	A	1993-07-23	JAPAN			ABS	
JP	863119		1996-03-08	JAPAN			ABS	
JP	10036835	A	1998-02-10	JAPAN			ABS	
JP	49106283		1972-12-27	JAPAN			ABS	
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GB	1589964		1981-05-20	GREAT BRITAIN				
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JP	5472484		1978-11-07	JAPAN			ABS	

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J.M. Robertson, et al., "Colourshift of the Ce <sup>3+</sup> Emission in Monocrystalline Epitaxially Grown Garnet Layers", 1981 Philips J. Res. 36, pp. 15-30
W.W. Holloway, Jr. et at., "Optical Properties of Cerium-Activated Garnet Crystals", 1969 Journal of the Optical Society of America, Vol. 59, No. 1, pp. 60-63
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JP	5950455		1984-04-01	JAPAN			ABS	
JP	324692		1991-03-14	JAPAN			ABS	
JP	463162		1992-05-29	JAPAN			ABS	
JP	463163		1992-05-29	JAPAN			X	
JP	563068		1993-08-20	JAPAN			ABS	
JP	8170077		1996-07-02	JAPAN			ABS	
JP	5331584		1978-03-24	JAPAN				
JP	60144381		1985-07-30	JAPAN			ABS	
JP	62167387		1987-07-23	JAPAN			ABS	

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JP	60144381		1985-07-30	JAPAN			ABS	
JP	62167387		1987-07-23	JAPAN			ABS	
JP	6208845		1994-07-26	JAPAN			ABS	
JP	06177423		1994-06-24	JAPAN			ABS	
JP	06260680		1994-09-16	JAPAN			ABS	
JP	06268257		1994-09-22	JAPAN			ABS	

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